Notes on IWFM Version 3.01

(Emin Can Dogrul; DWR)

This version of IWFM includes some minor corrections to IWFM version 3.0.

1. **(2/28/2007)** When diversion data file is not supplied and the supply adjustment flag, KOPTDV, is set to zero, an error message saying that zero value for KOPTDV is not valid is displayed. This is an error due to an incorrectly specified IF statement and it is corrected.

2. **(3/13/2007)** NWELL (number of simulated wells) was not passed to the subroutine that was in charge of defining the pumping specifications. This is corrected.

3. **(3/13/2007)** The DSS data types 'PER_AVER' are changed to 'PER-AVER'. The former was causing incorrect accumulation results when used in HEC-DSSVue.

4. **(3/13/2007)** In INITIAL.for, if the value of KOPTDV was changed due to non-existing rainfall gages (i.e. no surface flow processes are simulated) the global KOPTDV was not changed causing an error. This problem is fixed.

5. **(4/19/2007)** In Pre-Processor, the reading of the stream rating tables is modified so that comments can be inserted in the data file without causing program crash.

6. **(4/27/2007)** If streams were interacting with aquifer layers other than the first layer due to disappearing layers, the output file for TECPLOT was creating an error. This was because the global node numbers were printed for groundwater nodes that coincided with stream nodes. This is corrected by printing out the top aquifer node even when streams interact with layers other than the top layer.

7. **(5/1/2007)** In Pre-processor, the generation of lake rating table caused an error in certain situations. One situation is that when there is only one lake element with all nodes having

different ground surface elevations, there was an "array out of bound" error. This was fixed by increasing the size of the HLTB and VLTB arrays to NTELAKE*5.

8. **(5/1/2007)** The code that produces the Tecplot output is modified to take care of the lakes that interact with aquifer layers other than layer 1 due to layer 1 being non-existent at places.

9. **(5/1/2007)** The Pre-processor and Simulation, files are modified for proper simulation of lakes when they interact with layers other than layer 1.

10. **(8/23/2007)** An error in ZBudget is corrected. When number of zones to be printed was larger than 500, an error would occur. This is fixed.